

Screw-cap tester

DTX2 Series

Torque tester of screw-caps with easy data processing



[Applications]

- Measure the torque of screw caps of cosmetics, foods or drinks.

[Features]

- Less shakiness of the table unit.
- Weight of table unit and vertical force are kept by 2 ball bearings.
- Easy to clamp the sample by 4 clamping mouth-pieces.
- Digital display shows CW/CCW torque and peak torque.
- Comparator function which can program Hi/Lo set point.
- Memory stores up to 1000 measurement.
- Various outputs RS-232C for PC, Analog and Mitutoyo Digimatic.
- Selectable three units (N-m/Kgf-m/lb-in or N-cm/Kgf-cm/lb-in)
- Two models (battery use or AC power use) are available

[Models]

There are 6 ranges for each series as the followings

| Model | | Capacity | Display | Resolution |
|---------------|---------------|----------|-----------|------------|
| DTX2-2N-A | DTX2-2N-B | 2N-m | 2.000N-m | 0.001N-m |
| DTX2-5N-A | DTX2-5N-B | 5N-m | 5.000N-m | 0.001N-m |
| DTX2-10N-A | DTX2-10N-B | 10N-m | 10.00N-m | 0.01N-m |
| DTX2-200Nc-A | DTX2-200Nc-B | 200N-cm | 200.0N-cm | 0.1N-cm |
| DTX2-500Nc-A | DTX2-500Nc-B | 500N-cm | 500.0N-cm | 0.1N-cm |
| DTX2-1000Nc-A | DTX2-1000Nc-B | 1000N-cm | 1000N-cm | 1N-cm |

Difference between models followed by “-A” and models followed by “-B”

| Model | Source of Power |
|----------------|---|
| DTX2-[range]-A | Mains AC100V~240V |
| DTX2-[range]-B | NiMH rechargeable batteries or AC adapter |

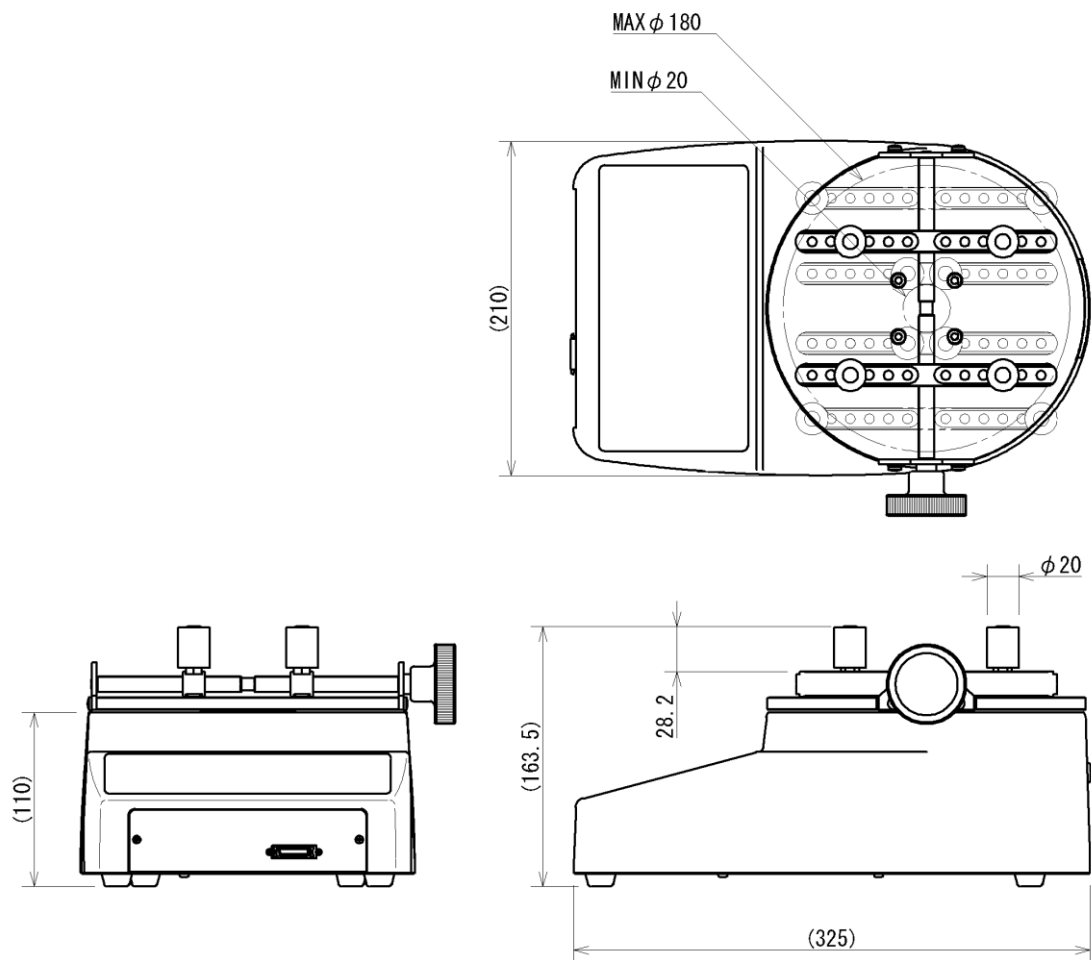
[Optional Accessories]

| | |
|--|---|
| Analog cable CB-201 Connects this unit to analog instruments | Pen recorder SS-100F-MM Plots graphic chart by analog output from this unit |
| RS232C cable CB-204 Connects this unit to computer | Software ZLINK2E Plots chart and records measurement via RS-232C output form this unit |
| Digimatic cable CB-304 Connect this unit to Mitutoyo Digimatic mini-processor. | Digimatic mini-processor DP-1VR You can print out measurement, and also take simple statistics. |

[Specifications]

| Model | DTX2-A Series | DTX2-B Series |
|----------------------|--|--|
| Measuring units | N·m/kg·m/lb·in or N·cm/kg·cm/lb·in | |
| Display | 4 digit LCD Unit-Mode-Overload LED-Comparator LED | |
| Sampling rate | 1000 times/sec. | |
| Display update | 10 times/sec. | |
| Over torque capacity | 150% of rated capacity LED flashes and buzzes beyond 110% of capacity | |
| Diameter of sample | 20 mm to 180 mm dia. | |
| A/D converter | 24 bits delta sigma | |
| Processor | 8 bits 1 chip micro processor | |
| Accuracy | +/- 0.5 % of rated capacity | |
| Battery use | | Approx. 8 hours 10 hours for charging |
| Temperature of use | 0 – 40 degree Celsius | |
| Power source | 100 to 240 VAC | NiMH rechargeable battery AC adapter -1 |
| Dimensions | See next page ... | |
| Weight | Approx. 4.5 kg | |
| Outputs | RS-232C Mitutoyo Digimatic Analog voltage +/-2V | |
| | Comparator signal (+NG, OK -NG) Open collector max. 30 VDC 10 mA | |
| | Over torque warning signal (OVL) Open collector max. 30 VDC 10 mA | |
| Inputs | Close contact Display hold, zero, peak/track select | |
| Peak mode | “And” mode (peak of CW and CCW) or “Or” mode (peak of CW or CCW) | |
| Comparator | Programmable hi/low set points with color coded indicators and output | |
| Memory | Up to 1000 data can be stored | |
| Alarm | Output, buzzing and LED flashing for over torque warning | |
| | Buzzing at the value of comparator +NG | |
| Others | Auto zeroing (selectable between 1.0 and 25.5) | |
| | Dumping (selectable 7 levels) | |
| Auto-power-off | Disable, 5, 10, 30, 60 minutes selectable | |

-1 Since commercial power supply voltage varies in the area where the gauge is used, three types (100V, 120V, 230V) of voltage adapters are available. Please specify the confirmed voltage for the commercial power supply when you order.

[Dimensions]**[Notes]**

- Do not apply excess torque, force, or impact on regardless to the power is on/off.
- Do not use the instrument under the condition of the rapid temperature changes, high temperature, high humidity, near water and dusty place.
- All information is subject to change without prior notice.